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QUANTUM OPTIC ION INTO RYDBERG ATOM

WITH DIPOLAR INTERACTION

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ABSTRACT

Quantum optical ion into Rydberg atom with the interaction of the building will be high degenerated. The quanta of optic will be the signal transition into the field interaction, the optical molasses with zee rotation in the fermion string also discussed. The optical dipolar interaction with string is into the condensed boson fermion. The optical zee with graviton rotation spin with spin- spin interaction in coupling field are also discusses in these paper.

KEYWORDS: Graviton, Spin Interaction, Zeeman Rotational Symmetry

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Research Article

INTRODUCTION

Optic transition into the Rydberg with the interaction into quantum optic ion in the field generator with two band transition [1] into the cavity trapped ion optic with two dimensional rotational is symmetry into phase rotate into the Rydberg with to decay of dephasing into the field orientation into the transition of optic into two core coherence into the excitation of ion into the optical dynamic core rotation into the probable have a dynamic phase into molasses or will have to quantum building block optic in the transition phase plate into the spin interaction [2] with the most dynamic optic transformation.

However, the quantum building will be a high degenerated with the translation of two phase chromo dynamic into the orbit with the Rydberg with phase I to phase II with the field with electric with degenerated with narrow phase δ_i with rotating symmetry dipolar transition into the field rotation with the robust magnetic core optical function Є with a dense core fibre line into the optical transition with spin of quantum optic ion in the state function of Rydberg with signature of dephasing with quanta into the core transition of ½ spin zero with pole extrapolate

$$P_0\ \alpha + qe^{\lambda\xi\mu} \rightarrow e>n$$

Where P_0 & Q_0 in the field optic rotation in the symmetry of electric string generator of spin tenuous symmetry with core rotation of buns 1 phase to signal optic buns 2 phase.

λ is the global graviton of optic rotation with pulse optic generator. μ is the function of function of annihilated of optical molasses.

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The quantum of optic will be have to be the signal transition into the field interaction will null to zero

Zeeman with the transition core of dynamic orientation with optic hyperfine zero energy signal transition [3] into the Rydberg with the rotating sequence.

$[a_1 \beta_i, a_2\gamma_i, a_3\alpha_i] = Q_0P_0$

$\beta_i, \gamma_i, \alpha_i$ in the zee transition of optic ion into the photonic signal vibrate triplet scattering into the binding mass optical transitional condensed matter with particle rotation.

Optical Molasses with zee Rotation in Fermion String

The optical hydrodynamic core generator with tool zero Zeeman into the transition with one two –n transverse dynamic multi body rotation of core phase inbuilt building with the signature of one phase annihilated with two core rotational symmetry of non-classic cal degenerate wave into decoherence with optic core have to be inbuilt a transverse symmetry optic rotation into ρ_φ dense condense of optic turbulence.

However it have of dark phase of annihilation with line optic spectral with generating spin analog with phase annihilation of building block quanta Rydberg translation.

Although, the measure hysteretic of Ferro-fermion super fluidity will have to be with atomic condensation probability into inbuilt dynamic with transverse zero dynamic rotation.

However, the phase super fluidity with optical molasses with obstruction of “Sugato optical molasses” with the breaking transition optic core. However the optic breaking with the suit a transparent image of rotational symmetry zone with the inbuilt rotation. The dipolar inbuilt optical symmetry with zero Zeeman phase into symmetry optical molasses.

Optical Dipolar Interaction with String into Condensed Boson Fermion ion

The interaction into the polar symmetry with the resonant revival of interval phase dynamic oblong rotation into the symmetry of super string have the phase dynamic with optic molasses with two state generation with controlling feedback optic symmetry. The signal temporal however have a symmetry optic with dynamic Doppler classes although (P,Q), L_q L_q Hilbert have a annihilated zone of zee transition of super string dynamic rotation.

$[(P_iQ_i)^+]^+ + [(Q_i, P_i)^+]^+=1$

String geometry have phase with the model geometry of total shift transition of dipolar moment. However, magnetic polar rotation has a phase pseudo with zero Zeeman with transition of rotation to genera tic graviton super string high energy enthalpy. However, optic with rotation or with symmetry transformation have had a thermal enthalpy generator of optic core dynamic Rydberg wave pulse growth generator.

Although, condense boson have a monotonic many body rotation into Doppler [4] sensitivity model.

Optical Zee with Pulse Graviton

Optical spatially with the string generator with Rydberg with pulse dense ion optic with coherence into the thermal rotation of off let dipolar interaction with to Bose-condensation with Zeeman molar transition of optic.

However, the zee with onto the transition with phase zero rotating “Sugato optic molasses”[5] with transition of signature of symmetry generator. Although, Rydberg atom in the density shells with the order transition of optical molasses with zero phase null Zeeman rotational symmetry.

However, super string graviton with spin analog with the matrix phase optical wavelength generator. However, the mean transition of φ_i is have to rotational complex symmetry with to enthalpy of thermal Rydberg.

Zee phase transition with the dynamic rotate with the dynamic rotate with high build rotation in spin of intangible of inter phase inter rotation with inertial in have a rotation with spin zero to spin hyper fine symmetry.

Optical Zee with Graviton Rotation Spins with Spin-Spin Interaction in Coupling Field

Optical zee transition is with the coulomb interaction with rotational symmetry with the molasses with the transition into the rotational symmetry having to the pulse optic rotation into the phase rotation of optic ion into the dipolar –dipolar coupling will have to be dipole –dipole interaction. However the building block generator of rotation spins optical molasses with the symmetry of super string generator. Although, graviton will be the generator of optic. It will be have a generator of zee interaction have a boundary limit with the Rydberg have infinite energy scale limit. However, Rydberg transition with coupled optic with generative rotation into the optical limit of spin generator.

The signature of rotating optic has a transition in limit of light generator into the optic ion. Though, the inter generator of Rydberg have scaling of sequence of pulse generator of spin –spin interaction [6] with the thermal Rydberg atom. The wave generator will have a phase rotation of coupling of transverse interaction of genet rated interaction of optic ion into the large scale.

CONCLUSIONS

Quantum ion into the Rydberg atom with dipolar interaction with have to the intangible of optical molasses with zee rotation in fermion string and the condensed boson fermion ion to be discussed is this paper.

REFERENCES

1. *Fabian Bottcher, Anita Gaj, Karl.M.,Westphal, Michael Schlagmuller, Kathnin, S Kleirbacl, Robert Low Tara Cabel, Liebiscl Tilman Pfau,Observation of mixing between singlet and triplet Scattering Channels in Rb $ -2$ Rydberg molecules.*
2. *Holger Kadau, Mathias Schmit, Matthias, Wenzel, Clarissa Wink, Tomas Maier, Igar Ferrier, Barbut, Tilman Pfau Observation the Resenweing intability of a quantum Ferro fluid. anXiv 1508.05007v1*
3. *Anita Gaj, Alexander T. Krupp, Jonathan B,Blaewski Robert law Sebastian Hofferberth Tiliman Pfau Ultra cold atom electron interaction from two to many body physics. arXiv1404:5761vi*
4. *Thomas Maier, Fgor Ferrier, Barbut Holger kadau Mathias Schmit Mathias Werzel Clarissa Wink Tilman Pfau Krzy sztof Jachmaki Paul Sebastin Jalienne Broad universal Feshbacl resonances in the chaotic spectrum of Dysprosium atoms Physical Review A12/2015 DOI: 10:1103 Phys Rev A. 92.060702*
5. *S.Ghosh, Quantum Optic Ion IJPR Vol-6, Issue-1,Feb2016,21-26*
6. *A.C.Wilson,Ycolombe,K.R.Brown, E. Krill, D. Leibfried, and W.J.Wineland Tunable spin-spin interaction and entanglements of ions in separate wells Nature July 2014*